

Title (en)

ATTRITION RESISTANT SUPPORTS FOR FISCHER-TROPSCH CATALYSTS AND PROCESS FOR MAKING THE SAME

Title (de)

ABRIEBFESTE STÜTZEN FÜR FISCHER-TROPSCH-KATALYSATOREN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

SUPPORTS RÉSISTANT À L'ATTRITION POUR CATALYSEURS FISCHER-TROPSCH ET LEUR PROCÉDÉ DE FABRICATION

Publication

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Application

EP 11816766 A 20110719

Priority

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Abstract (en)

[origin: WO2012021259A1] The invention relates to a novel method of preparing attrition resistance spinel supports for Fischer Tropsch catalysts. The process comprises: (a) combining aluminum oxide, metal compound capable of forming spinel phase, and soluble compound of a trivalent aluminum; (b) mixing the combination resulting in (a) in a manner sufficient to form a slurry comprising the aforementioned combination; and (c) processing the mixture of (b) under conditions sufficient to form metal aluminate spinel composition. Metal aluminate spinel, for example, is formed in the last step by calcining the mixture from (b) at a temperature in the range of 700 to 1300°C, but the process is also capable, of producing attrition resistant supports (e.g., having a DI of 5 or less) at a relatively lower temperature in the range of 700 to 1050°C. The invention also produces the attrition resistance with lower metal loadings than that reported for prior attrition resistant spinel supports.

IPC 8 full level

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- No further relevant documents disclosed
- See references of WO 2012021259A1

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